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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/558,588	04/26/2000	Kenji Shibata	3008-03 1056		
7	590 03/27/2002				
Lalos & Keegan 1146 Nineteenth Street N W Fifth Floor			EXAMINER		
			WILLE, DOUGLAS A		
Washington, DC 20006-3404			ART UNIT	PAPER NUMBER	
			2814		
			DATE MAILED: 03/27/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

	<u> </u>	Application No		Applicant(s)		
		09/558,588		SHIBATA ET AL.	\.\.\\	
	Office Action Summary	Examiner		Art Unit		
		Douglas A Wille)	2814		
Period fo	The MAILING DATE of this communication ap or Reply	p ars on the cov	rsh et with th	orrespondenc add	ress	
A SH THE I - Exter after - If the - If NO - Failu - Any I	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.7 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a repl or period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, how ly within the statutory mi will apply and will expire, cause the application	vever, may a reply be tin inimum of thirty (30) day: s SIX (6) MONTHS from to become ABANDONE	nely filed s will be considered timely. the mailing date of this com D (35 U.S.C. § 133).	munication.	
1)⊠	Responsive to communication(s) filed on 07	February 2002 .				
2a)⊠	This action is FINAL. 2b) The	his action is non-t	iinal.			
3)	Since this application is in condition for allow closed in accordance with the practice under				merits is	
-	ion of Claims					
4)⊠	4)⊠ Claim(s) <u>1-22</u> is/are pending in the application.					
5 \	4a) Of the above claim(s) is/are withdrawn from consideration.					
· _	Claim(s) is/are allowed.					
	Claim(s) <u>1-22</u> is/are rejected.					
7)[]	Claim(s) is/are objected to.					
-	Claim(s) are subject to restriction and/o ion Papers	or election require	ment.			
9) 🗌	The specification is objected to by the Examine	er.				
10)	The drawing(s) filed on is/are: a)☐ acce	epted or b) objec	ted to by the Exa	miner.		
	Applicant may not request that any objection to the					
11)	The proposed drawing correction filed on			oved by the Examiner		
. —	If approved, corrected drawings are required in re	· -	ction.			
,—	The oath or declaration is objected to by the Ex	xaminer.				
	under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
* (3. Copies of the certified copies of the pric application from the International Bu See the attached detailed Office action for a list	ureau (PCT Rule	17.2(a)).		tage	
14) 🗌 A	Acknowledgment is made of a claim for domest	tic priority under 3	35 U.S.C. § 119(e) (to a provisional a	application).	
) The translation of the foreign language process Acknowledgment is made of a claim for domes					
Attachmen	•		•			
2) Notic	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	4) 5) 6)	Notice of Informal	y (PTO-413) Paper No(s Patent Application (PTO		

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 2. Claims 1 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hatano et al. in view of Sasaki et al.
- 3. See prior Office Action for details.

Response to Arguments

- 4. Applicant's arguments filed 2/7/01 have been fully considered but they are not persuasive.
- 5. Applicant argues that the layer 47 of Hatano et al. which is described by Hatano et al. as being low in Al is only low in Al with respect to layers 47 and 48 but that is a claimed feature and note that if it has any Al, the band gap is greater than the active layer which has no Al.
- 6. Applicant states that layer 47 is not an insertion layer but while not called an insertion layer by Hatano et al., it has all the attributes of that layer, as claimed.
- 7. Applicant argues that Hatano et al. do not show various features, that are not claimed, but since they are not claimed, they are not considered.
- 8. Applicant states that Sasaki et al. does not teach an insertion layer but note that this is piecemeal analysis and Sasaki et al. is relied upon to teach the window layer.
- 9. Applicant states that Hatano et al. do not show an active layer with Al but claim 4, which is referenced only states the material is in the AlGaInP material system, in which the Hatano et al. active layer is.

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10. Applicant states that the claimed carrier range has been ignored but, apparently, Applicant has ignored the rejection and is directed to paragraph 4 of the prior rejection.

Conclusion

11. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Douglas A Wille whose telephone number is (703) 308-4949. The examiner can normally be reached on M-F (6:15-3:45).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Olik Chaudhuri can be reached on (703) 306-2794. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.



Creation date: 15-08-2003

Indexing Officer: CSENG - CHANDA SENG

Team: OIPEBackFileIndexing

Dossier: 09558588

Legal Date: 03-02-2003

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